

# BIODATA

## PERSONAL

**Name:** Dr.Bipin Kumar Sharma  
**Father's name:** ShriHridayanath Sharma  
**Sex:** Male  
**Date of birth:** 12<sup>th</sup> May 1977  
**Maritalstatus:** Married

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## EDUCATIONAL QUALIFICATIONS

### **Ph.D. (Doctor of Philosophy)**

Title:Eco-biological studies of Seabuckthorn-*Frankia* Symbiosis

Year: June 2007

Institution: Rajiv Gandhi University (RGU) Arunachal Pradesh., India.

### **Master's Degree in Lifesciences**

Thesis Title:Studies on oxidative stress physiology in moss *Taxithelium nepalense* (Schwaegr.)

Year:July 2001

Institution:Assam University Silchar (AUS), Assam, India.

### **Bachelor in Education**

Institution: Dibrugarh University (DU), Assam, India.

Year:2002

### **Bachelor in Science**

Institution:Dibrugarh University (DU),Assam, India.

Year:1997

### **H.S.S.L.C (Intermediate 10+2)**

Institution: Kendriya Vidyalaya Namrup, Assam, India.

Board:Central Board of Secondary Education

Year:1994

### **H.S.L.C (Matriculation 10)**

Institution: Kendriya Vidyalaya Namrup, Assam, India.

Board: Central Board of Secondary Education

Year: 1992

## TEACHING AND RESEARCH EXPERIENCE

Sl. No	Name of Employer	Nature of work and Designation	Period (Start to end)	Place of work	Title/field of work
01	Tripura University	Assistant Professor	Sept. 2011 to till date	Department of Microbiology	Basic and advanced microbiology and Microbial Ecology
02	NEIFM, Department of AYUSH	Research (SRF)	May 2008 to Aug2011	Pasighat	Promoting and documenting Folk medicine of Northeast India and preparing inventory of medicinal plants and identification of bioactive compounds
03	Rajiv Gandhi University	Guest Lecturer (M.Sc.)	January 2008 to May 2008	Department of Botany	Microbiology, Plant Biochemistry, Bioinstrumentation and Algal physiology
04	DBT, Govt. of India	Research (SRF)	Nov. 2006 to Feb. 2008	NERIST	Documentation, Study and Restoration of Traditional Dyes of Arunachal Pradesh and Elucidating the Structures of the Colorants
05	CSIR.	Research (SRF)	Nov. 2004 to Aug. 2006	GBPIHED, NE Unit, Itanagar	Nutrient Use optimization by Improving Soil Biological Processes using Available Resources in a Marginal Upland Jhum Farming System on the North- East India
06	DST. Govt. of India	Research (JRF)	Aug 2002 to Oct. 2004	NERIST	Isolation, Characterization and Selection of efficient strains of <i>Frankia</i> for Seabuckthorn growing in Eastern Himalaya

## ADMINISTRATIVE EXPERIENCE

1. Appointed as Head (In-Charge), Department of Microbiology, Tripura University for three years on 11<sup>th</sup> July 2012
2. Appointed as Head (In-Charge), Department of Microbiology, Tripura University on 30/07/2015
3. Appointed as Campus In-Charge, Tripura University Campus on 26<sup>th</sup> September 2018
4. Appointed as Coordinator, Department of Microbiology, Tripura University for three years on 28<sup>th</sup> August 2018
5. Appointed as In-Charge, Research and Innovation Cell, Project section, Tripura University on 26<sup>th</sup> February 2021
6. Appointed as Convener of Monitoring Committee, Tripura University on 04<sup>th</sup> Oct. 2018
7. Appointed as Convener of Campus Verification committee of Tripura University 27<sup>th</sup> Nov. 2018
8. Appointed as Convener of Technical Committee for Annual Maintenance and Contracts of all UPS of Tripura University Premises on 19<sup>th</sup> Dec.2018
9. Appointed as convener for the committee for the development of the Vermicompost Unit on 12<sup>th</sup> June 2019
10. Appointed as Convener Campus development committee on 08<sup>th</sup> June 2020
11. Appointed as Chairman of an Expert committee to prepare the course structure, syllabus, eligibility criteria, question pattern, fees structure and other modalities regarding six-month certificate course in Organic farming in self-finance mode to be introduced in the Maharaja Bir Bikram University, Agartala on 3<sup>rd</sup> Aug. 2021

## **MEMBER OF ADMINISTRATIVE COMMITTEE**

1. Member of Board of Faculty of Studies in Science of Tripura University for three years from 28 March 2016.
2. Member of Board of Post Graduate Studies (BPGS) of Department of Pharmacy for three years from 21<sup>st</sup> Aug 2016
3. Member of committee for the processes of National Institutional Ranking Framework (NIRF) under MHRD, Government of India 27<sup>th</sup> Nov. 2018
4. Member of Institutional Animal Ethical Committee (IAEC) of Tripura University on 5<sup>th</sup> Dec. 2018
5. External Member of Board of Under Graduate Studies (BUGS) in Microbiology for three years on 12<sup>th</sup> February 2019
6. Member of Internal Complain Committee for prevention, prohibition and redressal of sexual harassment of women employees in Tripura University on 22<sup>nd</sup> May 2019
7. Petroleum /Oil and Natural Gas on 20<sup>th</sup> June 2019
8. Member of Space Management Committee of Tripura University on 3<sup>rd</sup> July 2019
9. Member of PRO Cell of Tripura University on 5<sup>th</sup> September 2019

## **MEMBER OF EDUCATIONAL COMMITTEES**

1. Member of Selection committee for appointing Guest Teacher through walk in interview for department of Microbiology on 31<sup>st</sup> Aug. 2015
2. Member of selection Committee for appointing Project Fellow for the UGC-DAE-CSR project entitled "Understanding the impact of phyto-chemical-element content on biofilm stimulation by epiphytic bacteria" 24<sup>th</sup> June 2016
3. Member and Subject Expert for the Selection committee for conducting Interview for the post of JRF under the MoEFCC project at Ramkrishna Mahavidyalaya Kailashahar, Unakoti, Tripura on 11<sup>th</sup> Nov.2016
4. Member of selection Committee for appointing JRF for DST New Delhi for project entitled "Microbial enzyme based natural fiber (Ramie) finishing: an eco-friendly approach" 23<sup>rd</sup> Dec. 2016
5. Member Technical committee for smooth functioning of pre-Ph.D course work during 2018-2019 in science departments of Tripura University.
6. Member Committee to suggest various projects to be implemented in Tripura University Campus for generating wealth from waste on 28<sup>th</sup> Dec. 2018
7. Member of committee for extension of Non-NET, Ph.D. fellowship for Anindita Deb, Department of Zoology, Tripura University on 04<sup>th</sup> Jan. 2019
8. Member of committee to judge best slogan in slogan writing competition on the occasion of World Forest Day on 15<sup>th</sup> March 2019.
9. Member of committee to prepare the specific Training Modules (Syllabus/Curriculum etc.) for conducting the multi-Pronged skill Training Programme for the students of Tripura University on 29<sup>th</sup> May, 2019
10. Member of Committee to examine the feasibility of introducing new course structure in
11. Appointed as Chairman of an Expert committee to prepare the course structure, syllabus, eligibility criteria, question pattern, fees structure and other modalities regarding six-month certificate course in Organic farming in self-finance mode to be introduced in the Maharaja Bir Bikram University, Agartala on 3<sup>rd</sup> Aug. 2021

### SUPERVISING PH.D. STUDENTS

Sl. No	NAME	TITLE	STATUS
1	Ms. Nandita Nath	Studies on potential yeast isolates from traditional alcoholic beverages of major ethnic tribes of Tripura	Awarded
2	Ms. Lovely Rahman	Studies on phytochemical compounds as possible antibiofilm agents against pneumonia causing bacteria	Awarded
3	Mr. Sushanta Ghosh	Studies on yeast isolates of food origin with antimicrobial properties from in and around Agartala	Awarded
4	Mr. David Lalvohbika Kaipeng	Studies on citrus canker and greening disease affecting citrus crops of Tripura	Registered
5	Mr. Abhijit Dutta	Studies on fungal diversity in leaf litter decomposition, nutrient release dynamics and screening of efficient rubber degrading fungal strains from rubber plantation of Tripura	Course work completed
6	Ms. Debashree Borthakur	Studies on flavor producing compounds of microbial origin isolated from fermented food of Northeast India	Course work completed

### SUPERVISION/EVALUATION OF M.SC. & M.PHIL. STUDENTS

#### (A) EXTERNAL EXAMINER EVALUATION OF M.PHIL. DISSERTATION THESIS

Sl. No	NAME	YEAR	TITLE	Role
1	Ms. Paulomi Paul	2017	Virtual design and Analysis of Novel Drug leads against <i>Plasmodium falciparum</i> and Hemolysis.	External Examiner
2	Ms. Nafiza Sahani Barbhuiya	2017	Antioxidant activity of <i>Glycosmis pentaphylla</i> (Retz.) DC.	External Examiner
3	Md. Abdul Aziz Choudhury	2017	Designing a suitable Domperidone Derivative an In-Silico Approach.	External Examiner
4	Ms. Dipshikha Nath	2015	Bioactivity Guided Phytochemical Profiling of <i>Alocasia decipiens</i> Schott.	External Examiner
5	Mr. Subham Choudhury	2012	Effect of Chronic Liver Disease on brain function: Neurochemical and molecular investigations.	External Examiner

(B) SUPERVISION OF MSC DISSERTATION THESIS

Sl. No	NAME	YEAR	TITLE
1	BIRAJ SARKAR	2014	Isolation and characterization of Bacteria associated with fermented bamboo shoots of Tripura.
2	PRASENJIT DEBNATH	2014	Isolation and characterization of Bacteria associated with fermented bamboo shoots of Manipur.
3	NANDITA NATH	2014	Isolation and characterization of yeast strains from fermented alcoholic beverages prepared by Debbbarma and Urang tribe of Tripura, North East India.
4	ANUBHA NATH	2014	Isolation and characterization of yeast strains from fermented alcoholic beverages prepared by Reang and Uchai tribe of Tripura, North East India.
5	ANINDITA LODH	2014	Richness and population status of soil Mycorrhizal Species along different soil depth gradients in Tripura.
6	MANISHA ROY	2014	Isolation and characterization of bacterial strains associated with fermentation of dry-fish in Tripura.
7	ANIMESH SAHA	2015	Effect of silver on Biofilm formation of <i>Pseudomonas aeruginosa</i> .
8	SANGITA DEBNATH	2015	Isolation and characterization of surfactant producing halophilic bacteria from soil.
9	MANTI DEBNATH	2015	Evaluation of anti-biofilm activity of ampicillin against <i>Pseudomonas aeruginosa</i> biofilm.
10	ANAMIKA CHAKRABORTY	2015	Effect of Zinc on biofilm forming ability of <i>Pseudomonas aeruginosa</i> .
11	TANUKA NANDI	2015	Screening of antimicrobial properties of water & methanol extract from some folk medicinal plants used for treatment of common cuts & wounds effect on pathogenic microorganisms.
12	MOUSUMI DEBNATH	2015	Isolation and characterization of Nitrogen fixing bacteria from soil.
13	SANDEEP ACHARJEE	2015	Isolation and characterization of soil microbes capable of degrading natural rubber.
14	DIANA CHAKMA	2017	Screening of leaf extracts <i>Aegle marmelos(L.)Corr.(Bel)</i> , <i>Ficus carica(L.)</i> (Dumur) and <i>Cynodon dactylon (L.)Pers.</i> (Durva grass) for its antimicrobial activity.
15	JYOTI RANI JAMATIA	2017	Scientific assessment for validation of ginger, garlic and raw honey as biofilm intervention means for Pneumonia.
16	AMIT KUMAR DAS	2017	Isolation and characterization of petroleum degrading bacteria from soil of old petrol pumps and automobile workshop of Agartala City, Tripura.
17	JIMASREE RAVA	2018	Water quality assessment of Tripura University campus water sources.
18	JHUMA RANI SARKAR	2018	Silver green synthesis of nanoparticles from <i>Phlogacanthus thyriformis</i> (Roxb. Ex Hardw) and <i>Adhatoda vasica Nees</i> and to study its antimicrobial activity.
19	RUPALI CHOWDHURY	2018	Study on isolation and characterization of Lactic acid bacteria from fermented fish.

20	ABANITA SHARMA	2018	Preparation of wine and single cell protein from pineapple waste and their quality evaluation.
21	TANUSREE DEBNATH	2018	Isolation of <i>Azotobacter</i> from paddy field soil.
22	PARMITA REANG	2018	Isolation and characterization of yeast strains from fermented alcoholic beverages prepared by Garo and Uchai tribe of Tripura, North East India.
23	ARUSHI NATH	2018	Production of wine and isolation of single cell protein from banana waste.
24	ASANA DEBBARMA	2018	Isolation and characterization of yeast strains from fermented alcoholic beverages prepared by Molsom and Noatia tribes of Tripura, North East India.
25	SHYAMA CHARAN DEBBARMA	2018	Evaluation of antimicrobial activity of <i>Thevetia peruviana</i> or yellow oleander seed extracts.
26	JONAKI NATH	2018	Antimicrobial and antibiofilm properties of <i>Phlogacanthus thyrsiformis</i> (Roxb. Ex Hardw) (Kalo Basok) and <i>Euphorbia nerifolia</i> L. (Manasasi).
27	ROHAN BHATTACHARJEE	2019	To isolate microorganisms capable of producing pigments from different dumping ground areas of Agartala.
28	BHASKAR DAS	2019	Evaluating the risk of transmission of antimicrobial resistant <i>E. coli</i> from commercial fish market of Agartala.
29	SANKARI BANIK	2019	Microbial characterization and consortium development for the deinking of paper fibers and release of paper toners of office wastes.
30	SAPTAK DEBNATH	2019	Evaluating the impact of bio-adhesive agent dopamine in biofilm formation.
31	BRATATI PAUL	2020	Characterization of yeast strain having antimicrobial properties, isolated from local alcoholic beverages of Tripura.
32	NEHA KAUSHIK	2020	To study the effects of some traditional herbs as a means to reduce the microbial load in the oral cavity and reduce periodontal(gum) diseases
33	MANOJ KUMAR SATPATI	2020	Characterization of yeast strain having antimicrobial properties, isolated from the traditional beverages of Tripura.
34	SOUMYADIP GHOSH	2020	Cloning of the gene and expression as recombinant protein of the cyclic-di-AMP biosynthetic enzyme $\gamma$ -adenylate cyclase (DacA) of <i>Mycobacterium tuberculosis</i> .
35	NARGIS HOQUE	2021	Comparative Proteomic analyses of fragrance producing bacterial enzymes
36	PURNABRATA BAG	2021	Comparative Proteomic analyses of bacterial enzymes producing flavor
37	SANCHAYITA BASU	2021	An-Insilico study: To Understand the role and function of RIM15 for the control of Alcoholic fermentation in sake and non-Sake yeasts.
38	RUCHIRA DAN	2021	Genomic and proteomic analysis of proteins associated with pathogenicity of typical and atypical pneumonia causing bacteria

39	SWARAJ SINHA	2021	Genomic and proteomic analysis of proteins /lipoproteins associated with pathogenicity of typical pneumonia causing bacteria
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## PUBLICATIONS

1	D. Borthakur, M. Rani, K. Das, M.P. Shah, <b>B.K. Sharma</b> and A. Kumar; Bioremediation: an alternative approach for detoxification of polymers from the contaminated environment. In Letters in Applied Microbiology. Nov. 2021.Pp 1-15 doi:10.1111/lam.13616
2	Nath N and <b>Sharma BK</b> . Traditional Medicines used in Respiratory Tract Infection by Some Ethnic Tribes of Tripura- Survey. In Journal of Natural and Ayurvedic Medicine, 2020, 4(4): 000272.
3	Nandita Nath, Sushanta Ghosh, Lovely Rahaman, David Lalbhovika Kaipeng & <b>B.K Sharma</b> ; An overview of traditional rice beer of North-east India: ethnic preparation, challenges and prospects; Indian journal of traditional knowledge (2019)18(4):744-757
4	Ghosh, S., De Mandal, S., Nath, N., Kaipeng, D.L., Rahaman, L., Nachimuthu, S.K. and <b>Sharma, B.K.</b> ; Isolation and Partial Evaluation of a Potential Indigenous Yeast Strain <i>Pichia kudriavzevii</i> from a Traditional Rice Beer “Gora” Prepared by the Koloï Tribes of Tripura. Advances in Microbiology, 9, (2019) 824-841.
5	Lovely Rahaman, Sushanta Ghosh, Nandita Nath, Aparna Sen, Kiran Sharma and <b>Bipin Kumar Sharma</b> ; Antibiofilm effects of <i>Adhatoda Vasica</i> Nees. Extracts in comparison with commercial vasicine on <i>Streptococcus Pneumoniae</i> . IOSR Journal of Biotechnology and Biochemistry (IOSR-JBB) ISSN: 2455-264X, Volume 4, Issue 2 (2018), PP 05-16
6	Lovely Rahaman, Sushanta Ghosh, Nandita Nath, Aparna Sen, Kiran Sharma and <b>Bipin Kumar Sharma</b> ; Extracts of <i>Adhatoda vasica</i> Nees. And vasicine inhibits biofilm formation of <i>Klebsiella pneumoniae</i> .” IOSR Journal of Pharmacy and Biological Sciences (IOSR-JPBS) 13.2 (2018): 37-49.
7	Lovely Rahaman, Sushanta Ghosh, Nandita Nath, <b>Bipin Kumar Sharma</b> ; Pneumococcal biofilms and their intervention strategies; international journal of Pharmacy and pharmaceutical sciences, Vol-10 (3) 2018.
8	S. Bhowmik, T. Das, S. Ghosh, B.K. Sharma, S. Majumdar and U.C. De; Synthesis of some new Chrysin derivatives and their biological assessment as antibacterial, antibiofilm and antifungal agent; Asian Journal of Chemistry; Vol-30 (3) Pp 693-702 (2018). ( <a href="https://doi.org/10.14233/ajchem.2018.21167">https://doi.org/10.14233/ajchem.2018.21167</a> )
9	David Lalvohbika Kaipeng, Kanika Karmakar, Sushanta Ghosh, Lovely Rahaman, Nandita Nath, <b>Bipin Kumar Sharma</b> ; Huanglongbing: Causal disease for decline of <i>Citrus reticulata</i> & <i>Citrus macroptera</i> production in Tripura, Northeast India; Journal of Plant Pathology; 99 (1), 273-278 (2017). (DOI: 10.4454/jpp. V99i1.3834)
10	Sushanta Ghosh, Lovely Rahaman, David Lalvohbika Kaipeng, Dipankar Deb, Nandita Nath, Prosun Tribedi, Bipin Sharma; Community-wise evaluation of rice beer prepared by some ethnic tribes of Tripura, Journal of Ethnic Foods; Vol-3, Pp 251-256 (2016). <a href="http://dx.doi.org/10.1016/j.jef.2016.12.001">http://dx.doi.org/10.1016/j.jef.2016.12.001</a>
11	<b>Bipin Kumar Sharma</b> , Ramashanker, Sushanta Ghosh, Lovely Rahaman, Nandita Nath and David Lalvohbika Kaipeng; Plant based folk treatments from North East India for jaundice. (An overview), Journal of Medicinal Plants Studies, Vol-4 (5), 234-247, 2016
12	A. Datta, K. Chakraborty, C. Paul and <b>B. K. Sharma</b> ; Seasonal Diversity of Rhizospheric Micro-fungi in Two Different Age Group of Tea Plantation in Tripura, Northeast India, International Journal of Current Microbiology and Applied Sciences, Vol-5(3), 2319-7706, 2016

13	Maumita Saha, Subhasis Sarkar, Biplab Sarkar, <b>Bipin Kumar Sharma</b> , Surajit Bhattacharjee & Prosun Tribedi; Microbial siderophores and their potential applications: A review, Environmental science and pollution research, Vol-23, 3984-3999, 2016
14	<b>Bipin Kumar Sharma</b> , Animesh Saha, Lovely Rahaman, Surajit Bhattacharjee, Prosun Tribedi; Silver inhibits the biofilm formation of <i>Pseudomonas aeruginosa</i> , Advances in Microbiology, Vol-5, 677-685,2015
15	Ramashankar, S Deb and <b>BK Sharma</b> ; Traditional Healing Practices in North East India, Indian Journal of History of Science, Vol-50 (2), 324-332, 2015
16	Uma Sarkar, Bal Krishan Choudhary and <b>Bipin Kumar Sharma</b> ; Vascular Arbuscular Mycorrhizal (VAM) Spore Diversity and Density Across the Soil of Degraded Forest and Rubber Plantation in Tripura, India, American-Eurasian J. Agric. & Environ. Science, 14(10), 1080-1088, 2014.
17	Rama Shankar, G. S. Lavekar, Sourabh Deb, <b>B. K. Sharma</b> , and M.S. Rawat; Distribution, conservation and folk uses of Vaibidang ( <i>Embelia ribes</i> Burm. F.) in International Journal of Biodiversity and Conservation Vol. 4(13), pp. 525-529, October 2012.
18	Rama Shankar, GS Lavekar, S Deb, <b>BK Sharma</b> ; Traditional healing practice and folk medicines used by Mishing community of North East India in Journal of Ayurveda and Integrative Medicine, 2012, Volume 3, Issue 3 p. 124-129.
19	Ramashanker, S. Deb and <b>B. K. Sharma</b> : Jaundice and its traditional cure in Arunachal Pradesh, Journal of Pharmaceutical and Scientific Innovation1(3): 93-97 (2012) JPSI
20	Ramashanker, S. Deb and <b>B. K. Sharma</b> : Antimalarial plants of North east India: an overview. Journal of Ayurveda and Integrated Medicine 3 (1) 10-16 (2012) Medknow Publication
21	Dhruba Sharma, <b>Bipin K. Sharma</b> Awadhesh Shukla: "Biotechnological approach of microbial lipase." A review, in Biotechnology10, (Asia network for scientific information) ISSN 1682-296X, 2011.
22	<b>B.K Sharma</b> , I.M. Semwal, S. Chuhan, Rama Shankar and S. Deb: re- examining spores for fern Allergies "an overview" In Indian Journal of Allergy and Applied Immunology, 2010; 24 vol-1, Pp 39-41.
23	Ramashanker, S. Deb and <b>B. K. Sharma</b> : Traditional Healing Practices of north east India; An Overview; In Proceedings of Traditional healing practices in North East India. NEIFM, Pasighat, Arunachal Pradesh, 2009. Volume -1, Page no. 26-30
24	<b>B. K. Sharma</b> , S. Deb and Ramashanker: Present and prospective medicinal application of a wonder plant ( <i>Hippopheasp</i> ); an overview. In Proceedings of Traditional healing practices in North East India. NEIFM, Pasighat, Arunachal Pradesh, 2009.
25	Ramashanker, S. Deb and <b>B. K. Sharma</b> : Traditional healing practice of northeast India. Current Science, Vol. 97, No.1, 2009.
26	<b>B. K. Sharma</b> , A. K. Shukla and S. C. Tiwari: Effect Seabuckthorn- <i>Frankia</i> symbiosis on soil microbial properties in its natural stands. Indian Journal of Forestry Vol: 32 Issue: 2 pp: 263-268, 2009.
27	Tiwari, S.C., <b>Sharma, B.K.</b> , Sarma, H.K., Singh, N.D. 2008. Influence of organic manure and NPK fertilizers on growth performance of cowpea ( <i>Vigna chinensis</i> ) under greenhouse conditions. Life science Bulletin (India): 5(2):215-218.
28	<b>B. K. Sharma</b> , H. K. Sharma and S. C. Tiwari: Variation in physico-chemical properties of Seabuckthorn in Sikkim. Journal Indian Society of soil sciences, Vol. 55 No.2, pp 215-217, 2007.
29	S.C. Tiwari, <b>B.K. Sharma</b> , D. Lyngdoh and h. Larchhuakmawia: Studies on Soil Properties under Three Different Ages of Tea ( <i>Theaassamica</i> ) Plantations in Assam, North Eastern India. In: journal of Indian soil science, India, April-2005. Vol-53 No-2, Pp 1-4.



30	H. K. Sharma, <b>B. K. Sharma</b> , S. C. Tiwari, S. S. Singh and A. K. Mishra: Polymorphic distribution and phenotypic diversity of <i>Frankia</i> strains in nodule lobes of <i>Hippöphae salicifolia</i> D. Don. In: Current sciences, June 2006, Vol. 90, No. 11, Pp1516- 1521, India.
31	H. K. Sarma, <b>B. K. Sharma</b> , S. C. Tiwari and A.K. Mishra: Truncated hemoglobins: A single structural motif with versatile functions in bacteria, plants and unicellular eukaryotes. In: Symbiosis Vol-39, No-3, (2005) 151-158, Rehovot, Israel.
32	H. K. Sarma, <b>B. K. Sharma</b> and S. C. Tiwari: A novel calcimycin antibiotic from gram positive actinomycete <i>Frankia</i> microsymbiont. Research News, In: Current Sciences, November 2003, Vol. 85, No. 10. Pp 1401-1403, India.
33	M. Dash, <b>B. K. Sharma</b> , and S. K. Panda: Mapping of Human Genome: A biologist's equivalence of landing on moon. In: Journal of Every man's Science. Vol. XXXVI No. 4, January – March, 2002. P 211-217.

### **PUBLISHED BOOK CHAPTERS**

1	Abhijit Datta and B.K. Sharma; Plant litter decomposition –An overview: Book chapter in edited book “Biological Sciences: Impacts on Modern Civilization, Current and Future Challenges” by Anupam Guha published by New Delhi Publishers, New Delhi (2020) page no 229-237; (ISBN: 978-81-947417-9-4).
2	Nandita Nath and Bipin Kumar Sharma, Ju- A Traditional Alcoholic Beverage of Halam Tribe of Tripura; Emerging Trends in Scientific Research, International Book of Multidisciplinary Studies, Akinik Publication, New Delhi, (2020), Volume-3 Page no159-168.
3	Bipin Kumar Sharma, Hridip Kumar Sharma, A.K. Shukla and S.C. Tiwari; Seabuckthorn Community Structure, <i>Frankia</i> Diversity and Nitrogen Fixation in the Zones of North Sikkim. Book chapter in Seabuckthorn ( <i>Hippophae</i> spp.): The Golden Bush; Eds. S. K. Dwivedi, T. Parimelazhagan, S. B. Singh & Z. Ahmed; Published by: Satish Serial Publishing House, Delhi; 2009

### **NUCLEOTIDE SEQUENCE PUBLISHED:**

SL. NO	DESCRIPTION	GENE BANK ACCESSION NUMBER	DATE OF SUBMISSION
1	<i>Candida tropicalis</i> strain BKS-SG internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence	KR704580.1	11-May-2015
2	<i>Pichia kudriavzevii</i> strain NN/SGII internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene, complete sequence; and internal transcribed spacer 2, partial sequence	MG388336.1	04-Nov-2017
3	<i>Saccharomyces cerevisiae</i> isolate NN-BKS-C2 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene, complete sequence; and internal transcribed spacer 2, partial sequence	MK386865.1	10-Jan-2019
4	<i>Saccharomyces cerevisiae</i> isolate NN-BKS-C2 internal	MK386885.1	10-Jan-2019

	transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene, complete sequence; and internal transcribed spacer 2, partial sequence		
5	<i>Saccharomyces fibuligera</i> isolate NN-BKS-C1 internal transcribed spacer 1 and 5.8S ribosomal RNA gene, partial sequence	MK386886.1	10-Jan-2019
6	<i>Candida orthopsilosis</i> isolate NN-BKS-C3 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene, complete sequence; and internal transcribed spacer 2, partial sequence	MK386887.1	10-Jan-2019
7	<i>Wickerhamomyces anomalus</i> isolate NN-BKS-C4 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene and internal transcribed spacer 2, complete sequence; and large subunit ribosomal RNA gene, partial sequence	MK386890.1	10-Jan-2019
8	<i>Candida orthopsilosis</i> isolate NN-BKS-H2 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene and internal transcribed spacer 2, complete sequence; and large subunit ribosomal RNA gene, partial sequence	MK395445.1	14-Jan-2019
9	<i>Candida metapsilosis</i> isolate NN-BKS-H1 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene, complete sequence; and internal transcribed spacer 2, partial sequence	MK396841.1	14-Jan-2019
10	<i>Trichosporon asahii</i> isolate NN/BKS/D1 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene and internal transcribed spacer 2, complete sequence; and large subunit ribosomal RNA gene, partial sequence	MN795456.1	06-Dec-2019
11	<i>Candida tropicalis</i> isolate NN/BKS/D3 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene and internal transcribed spacer 2, complete sequence; and large subunit ribosomal RNA gene, partial sequence	MN795457.1	06-Dec-2019
12	<i>Wickerhamomyces anomalus</i> isolate NN/BKS/G1 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene and internal transcribed spacer 2, complete sequence; and large subunit ribosomal RNA gene, partial sequence	MN795580.1	08-Dec-2019
13	<i>Wickerhamomyces anomalus</i> isolate NN/BKS/J2 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene and internal transcribed spacer 2, complete sequence; and large subunit ribosomal RNA gene, partial sequence	MN795587.1	08-Dec-2019
14	<i>Pichia kudriavzevii</i> isolate NN/BKS/K1 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene and internal transcribed spacer 2, complete sequence; and large subunit ribosomal RNA gene, partial sequence	MN795588.1	08-Dec-2019
15	<i>Candida tropicalis</i> isolate NN/BKS/K2 internal	MN795589.1	08-Dec-2019

	transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene and internal transcribed spacer 2, complete sequence; and large subunit ribosomal RNA gene, partial sequence		
16	<i>Pichia kudriavzevii</i> isolate NN/BKS/K3 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene and internal transcribed spacer 2, complete sequence; and large subunit ribosomal RNA gene, partial sequence	MN795590.1	08-Dec-2019
17	<i>Pichia kudriavzevii</i> isolate NN/BKS/K4 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene and internal transcribed spacer 2, complete sequence; and large subunit ribosomal RNA gene, partial sequence	MN795591.1	08-Dec-2019
18	<i>Wickerhamomyces anomalus</i> isolate NN/BKS/N1 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene, complete sequence; and internal transcribed spacer 2, partial sequence	MN803423.1	09-Dec-2019
19	<i>Cyberlindnera fabianii</i> isolate NN/BKS/R1 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene and internal transcribed spacer 2, complete sequence; and large subunit ribosomal RNA gene, partial sequence	MN803439.1	09-Dec-2019
20	<i>Candida parapsilosis</i> isolate NN/BKS/R2 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene and internal transcribed spacer 2, complete sequence; and large subunit ribosomal RNA gene, partial sequence	MN807052.1	09-Dec-2019
21	<i>Candida tropicalis</i> isolate NN/BKS/U2 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene and internal transcribed spacer 2, complete sequence; and large subunit ribosomal RNA gene, partial sequence	MN807440.1	09-Dec-2019
22	<i>Saccharomyces cerevisiae</i> isolate NN/BKS/M1 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene, complete sequence; and internal transcribed spacer 2, partial sequence	MN809216.1	09-Dec-2019
23	<i>Saccharomyces cerevisiae</i> isolate NN/BKS/R3 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene and internal transcribed spacer 2, complete sequence; and large subunit ribosomal RNA gene, partial sequence	MN809217.1	09-Dec-2019

## WORKSHOP/ TRAINING JOINED

Sl. No	Training on	Sponsored and organized by	Period	Techniques learned
1	Contour Hedgerow and low input farming technology	GBPIHED, NE Unit, Itanagar	13 <sup>th</sup> to 15 <sup>th</sup> Oct. 2004	Contour Hedgerow farming system, Drip irrigation technology, Biobrequeating, Tallies, liquid manure, vermin compost, organic farming
2	Fungal Biotechnology	University of Madras	20 <sup>th</sup> to 26 <sup>th</sup> Oct. 2004	Fermentation technology, Mycorrhizal biotechnology, Gene amplification techniques, Protoplasmic fusion, Production of Taxol, Mushroom Technology, and various industrially important enzymes, IPR and Biosafety
3	Exposure course on application of Remote Sensing and GIS	GBPIHED, Kosi, Katarmal, Almora	11 <sup>th</sup> to 16 <sup>th</sup> April 2005	Overview of GIS, Fundamentals of GIS, Geographic Data Sets, Analysis of Geographic Data, Global Positioning System, Remote Sensing, Image Processing using ERDAS, Arc View software, Projection System
4	Biochemical and Molecular Techniques in Biology Teaching and Research	Center for Studies in Biotechnology, Dirugarh University	Feb 23-28, 2015	Biochemical characterization of DNA, HPLC, Advance Molecular Tools and Techniques, Bioinformatics and Data handling.
5	Training of Trainers Programme on "Biodiversity Governance"	NIRDPR-NERC, Guwahati in collaboration with CEBPOL, NBA, Chennai	18-20 <sup>th</sup> December 2018	Understanding the Biodiversity Governance, capacity building for sustainable use and management of biological diversity through flagship Programmes.
6	Training of Master trainers in study of flora and fauna, Documentation and assessment of local health tradition and exposure visit to south Indian states.	Institute of Ayurveda and instigative Medicine Foundation for Revitalization of local health tradition (I-AIM FRLHT) Bangalore, Karnataka	17 <sup>th</sup> to 25 <sup>th</sup> March 2011	Training on documentation of Local health tradition and plants and animal associated in traditional medicine.

### **ORIENTATION AND REFRESHER COURSES ATTENDED:**

<b>Sl. No</b>	<b>Orientation and Refresher</b>	<b>Organized by</b>	<b>Period (Start to end)</b>	<b>Topic of the course</b>
1.	15-days Refresher course	FDC, Tripura University	From 1 <sup>st</sup> March 2019 to 15 <sup>th</sup> March 2019	ICT: Improving Quality and Innovation in Higher Education
2.	15- days Refresher Course	FDC, Manipur University	From 14 <sup>th</sup> January to 4 <sup>th</sup> February 2016	Refresher course in life sciences
3	15-days online Refresher course	FDC, Tripura University	From 1 <sup>st</sup> to 14 <sup>th</sup> December 2020	Teachers on Using ICT for Online Teaching Learning Process.
4	Orientation Course	HRDC, Guru Ghasidas Viswavidyalaya, Bilashpur (C.G)	From 15 <sup>th</sup> June to 11 <sup>th</sup> July 2015	UGC- Sponsored Orientation Programme

### **VISITING FELLOW**

Visited Rajiv Gandhi University as visiting fellow from 05<sup>th</sup> to 13<sup>th</sup> April 2013, for teaching Microbiology and Microbial Techniques to Post Graduate students of Department of Botany, Rajiv Gandhi University, Arunachal Pradesh.

### **REVIEWER/ REFEREE OF REPUTED JOURNALS**

Reviewer in Indian Journal of Microbiology Research

### **EDITOR/ MEMBER OF EDITORIAL BOARD**

Innovative Publication Editorial Team

### **MEMBER OF ACADEMIC BODIES**

<b>Name of Society</b>	<b>Grade of Membership</b>
All India Association of Microbiologist	Life Member
Microbiologists Society, India	Life Member and State Coordinator
Society for Antimicrobial Research	Life Member

### **PARTICIPATED AS RESOURCE PERSON IN CONFERENCE/WORKSHOP**

1	Delivered invited Lecture on “Management of drinking water and its problems” and chaired the technical session of workshop on “water pollution management and disease” organized by department of Botany, Ramakrishna Mahavidyalaya, Kailasahar, Unakoti, Tripura from 26th to 28th November 2016. Sponsored by NCSTC, Division, DST-GOI.
2	Delivered talk as chairperson of a Technical Session in International Conference on Contemporary Antimicrobial Research 2016. Organized by Assam University Silchar from 14th to 17th November 2016.

3	Delivered invited Lecture on “Health impact on water pollution” and chaired the technical session of workshop on “water pollution health and disease” organized by department of Botany, Ramakrishna Mahavidyalaya, Kailasahar, Unakoti, Tripura from 26th to 28th March 2016. Sponsored by NCSTC, Division, DST-GOI.
4	Delivered invited Lecture on water borne diseases and its preventions, and chaired the technical session of the workshop from 28th to 30th March 2015, organized by the Department of Botany, Ramkrishna Mahavidyalaya, Kailashar, Unakoti. Sponsored by NCSTC, Division, DST-GOI.
5	Delivered invited Lecture on “Scope and Applications of biotechnology in agricultural development” in 3 days workshop on “Recent Trends in biosciences” organized by Institutional Biotech Hub (IBT, HUB), Center for Biosciences, Debraj Roy College, Golaghat Assam from 12th to 14th March 2013. Sponsored by DBT, GOI.
6	Participated and delivered lecture as Resource Person in state level training of field investigators on documentation, Assessment and promotion of local health tradition in Tripura from 18th to 25th February 2012. Jointly organized by Department of Botany, Tripura University and I-AIM FRLHT, Bangalore, Karnataka. Sponsored by NEIFM, Pasighat, Arunachal Pradesh.
7	Participated and delivered lecture as Resource Person in state level training of Field investigator in documentation and assessment of local health tradition and survey of flora of Meghalaya at Martin Luther Christian University from 19th to 28th July, 2011 at Shillong. Sponsored by Northeastern institute of Folk Medicine (NEIFM), Department of AYUSH, GOI, Pasighat, Arunachal Pradesh.
8	Participated and delivered lecture as Resource Person in state level training of Field investigator in documentation and assessment of local health tradition and survey of flora of Mizoram in association with Department of Environmental Science, Mizoram University, Aizawal. Organized by NEIFM, Pasighat, Arunachal Pradesh from 17th to 24th May 2011.
9	Participated and delivered lecture as Resource Person in state level training of Field investigator in documentation and assessment of local health tradition and survey of flora of Arunachal Pradesh at Pasighat from 4th to 10th May 2011 in collaboration with center of local health Tradition (FRLHT), Bangalore, Karnataka.
10	Participated and presented a paper entitled “Seabuckthorn, A wonder plant for marginal farmers in Eastern Himalaya” in the national seminar on “Agronomy for Socioeconomic Development of North eastern Region” sponsored by NEC, Shillong GOI. And organized by the department of Forestry, NERIST from 11th to 12th December 2009.
11	Participated and presented a paper on isolation and characterisation of Frankia strains from Hippophae sacifolia from eastern Himalaya in national conference on “Recent Trends in Biodiversity researches organized by Department of Life Science, Assam University, Silchar from 16th to 18th March 2009.
12	Participated and delivered lecture as Resource Person in workshop on Traditional Healing Practices in Mizoram on 16th January, 2009 at Aizwal. Sponsored by NEIFM, Pasighat and Jointly organized by school of earth sciences and natural Resources Management, Mizoram University and Department of Life sciences, Assam University, Silchar.
13	Participated and delivered lecture as Resource Person in workshop on Traditional Healing Practices in Tripura on 8th December 2008 at Tripura University, Agartala. Jointly organized by Department of Botany, Tripura university and NEIFM, Pasigaht, Department of AYUSH, GOI.
14	Presented a paper in national symposium on current trends in wetlands and fisheries research in the new millennium from 8-9 November 2000. Sponsored by UGC, DBT, CSIR, MOEF, ICAR DAHD). Organized by Department of life science, Assam

**WORKSHOP/ CONFERENCE/SEMINARS ATTENDED**

WORKSHOP/ CONFERENCE/SEMINARS ATTENDED	
1	Participated in one day international webinar on the application of geospatial and molecular tools in natural resource conservation and management, organized by department of Ecology and environmental science, Assam University Silchar on 29 <sup>th</sup> July 2020.
2	Participated in seminar in the one-day Cyber-Security overview workshop held at Tripura University on 24th September 2018, organized by Tripura University in association with IZen ai, Inc. USA.
3	Participated in Workshop on the Role of Local Chapters on 24th April 2017, organized by IIT, Kanpur at Tripura University, Agartala.
4	Participated in Workshop on “Capacity building in grant writing skills and effective management of Intellectual Property Rights (IPR) in Biotechnology by Universities and research institutions in the North East Region” at Tripura University from 23rd to 25th February 2017. Organized by Biotech Consortium India Limited (BCIL), New Delhi.
5	Participated in Workshop on “Biochemical and Molecular Techniques in Biology Teaching and Research” from 23rd to 28th February 2015, organized by the center of studies in Biotechnology, Dibrugarh University under IBT-Hub and DBT-NER Project, Govt of India.
6	Participated in authors workshop on “Skill development to write scientific literature, quality improvement of manuscript for publication success” organized by Springer in collaboration with Central Library, Tripura University at Maharaja Bir Bikram Satabarshiki Bhawan, Tripura University on 18th of November 2014.
7	Attended the symposium “Integrated Approach for Teaching and Research in Life Sciences” held from 28th to 29th September 2012 organized by Tripura University.
8	Participated in seminar on Biological Diversity on the occasion of international Day for Biological Diversity on 22nd May, 2012.
9	Participated in seminar on molecular biology held on 31st March 2012, organized by Department of Biochemistry, Agartala Medical college, Tripura University, Sponsored by DBT, GoI.
10	Participated in national seminar cum workshop on bamboo cultivation and resource utilization from 2nd to 6th March 2012, organized by Department of Botany, Tripura University, Sponsored by DBT, GoI.
11	Attended “National Conference on Arunachal Pradesh: Tradition in Transition Linking Ecology, Economics and Ethics” Organized by JNU, New Delhi in association with GBPIHED, Itanagar Unit, NERIST, SFRI, RGU, NIIRD and CCRD Arunachal Pradesh. Sponsored by UNESCO-MacArthur Foundation.
12	Participated in workshop on “Forest Conservation in Arunachal Pradesh” organized by the Department of Forestry, North eastern Regional Institute of Science and Technology, Nirjuli, Arunachal Pradesh
13	Participated in the 4th World Ayurveda Congress and AROGYA Expo: Focal Theme Ayurveda for all at Gayathri Vihar, Palace Ground, Bengaluru, Karnataka from 9th to 13th December, 2010.

14	Participated in the workshop on “prospects of NTFP certification and sustainable NTFP management” held on 28th and 29th may 2008, organized by the department of forestry, NERIST in collaboration with International Center for community forestry, a center of excellence of Indian Institute of Forest management (IIFM). Bhopal and Regional Center for Development Cooperation (RCDC) Bhubaneswar.
15	Participated in workshop on “Bioinformatics for Biologist” conducted by Bioinformatics Facility (BIF), Rajiv Gandhi University, Itanagar, Arunachal Pradesh. Sponsored by DBT from 3rd to 5th March 2008.
16	Participated in one day workshop on “Regional Approach to Tropical Forests Conservation in Arunachal Pradesh” held on 22nd October 2005 jointly organized by Department of Botany, Rajiv Gandhi University, Itanagar and Ashoka Trust for Research in Ecology and the Environment (ATREE), Eastern Himalaya Programme, North east Region, Guwahati.
17	Participated in the AICTE sponsored workshop on “Recent Trends in Environment and Sustainable Development” on 11th September, 2004, organized by the Department of Forestry, NERIST, Nirjuli, Arunachal Pradesh.
18	Marine Product Development Authority, Ministry of commerce and Industry, Govt. of India and organized by Department of life sciences, Assam University, Silchar on 24th and 25th January 2001.
19	Participated in the National Workshop-cum-Training on “Ornamental Fishes”, sponsored by Marine Product Development Authority, Ministry of commerce and Industry, Govt. of India and organized by Department of life sciences, Assam University, Silchar on 24th and 25th January 2001.
20	Participated in the National Workshop-cum-Training on “Fish habitat Inventory”, sponsored by NATP-NBFGR-ICAR, World bank aided research project on “Germ plasm Inventory, Evaluation and gene of Fresh water Fishes”. Organized by the department of life science, assam University, Silchar from 4th to 8th December 2000.

### **ADDITIONAL INFORMATION**

Appointed as Mentor for a DST Project under Women scientist Scheme A (WOS-A) entitled “Evaluating quinazolines from plant origin as possible anti biofilm against pneumonia causing bacteria.” From April 2015 to May 2018.